Quality Control

DQA:			Date:											
						WORK ORDER NON-	-CC	ONFO	RMANCE / UP	PDATE		_		AEROSPACE
QA Closed:			Date:							W	ork Order up	date only		
Work Orde	er:					DISPOSITION				AGAINST DI	PARTMENT	/PROCESS		
Part N	lo.				-	Rework Scrap Use-as-is			Skid-tube Machining noforming	Crosstube Small Fab Finishing	-1	Water Jet d. Eng. Coor. re/Packaging		Engineering Quality Other
NCR N	lo.				<u> </u>	Suspected Unapproved			Large Fab	Composite		Supplier		
Root					Desci	ription of work order update	Π	nitial	Actio	on	Sign &			
Cause		Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	ption	Date	Verification	n	QC Inspector
Design Doc/Data Equip/Tooling Handling/Pre Material Operator Offset/Setup Process Supplier Training Transport Unapproved														
			1		-		FA	ULT CA	TEGORY		1			
Landi	ng G	Gear			•	General								
		Bending Centre No Cracks	ot Concer	ntric		Bend BOM/Route Broken/Damage/Defect		Folio/F Grain Hardwa	Program are		Outside Dim Over/Under Part Incorred	tolerance	-	Pressure/Forced Set-up Temperature/Cure
		Crimp/Kii	nk/Ripple,	/Wave		Burrs		Inspect	ion Incomplete/Un	qualified	Part Lost/Mi	ssing		Weld
		Cuffs				Contamination		Instruct	tions Incomplete/U	nclear	Part Moved			Wrong Stock Pulled
		Crushing				Countersink		Misalig	gned/off center		Positioned V	_		
		Heat Trea	at		L	Cut Too Short		Mislabe	eled		Power Loss/	Surge		Other
		Inspectio		Tube		Drawing		Misread	d					
		Marks/Cl	natter			Drill Holes		Off-set						
		Turning S	equence			Finish		Out of	Calibration					
		Wave/Tw	ist in Tub	e		Fit/Function	L^{-}	Out of	Sequence					

Work Orde April-04-14 10:				*115	5800*	-						Page 2
Item ID: Revision ID: Item Name:	D3631-1 Washer			Accept	*N90004	4N ⁻	100)*	Setup	Start Stop		S1* S2*
Start Date: Required Date: Reference:	4/04/14 4/04/14	Start Qty: 20.00 Req'd Qty: 20.00	*20* *20*		Cust Item ID: Customer:							
Approvals:	Process QC:	s Plan:	Date:	Tooling: SPC (Y/N):	Date:			I	Run	Start Stop		R1* R2*
Sequence ID/ Work Center II 130 *120* Packaging Packaging	D	Operation Description Identify as per dwg & Stoo	k Location: <u>FPC</u> O	Set Up/ Run Hours 0.00	Tool ID To	ool#	Plan Code	Accept Qty	X		Reject Number AP	Insp. Stamp PR 0 9 2014
140 *1 4 1 * * Q C Quality Control		QC21- Final Inspection - V	Work Order Release	0.00					14	4	10	8

 $F_{-}: \bullet$

U 4160410

DQA:		Date:											,	
					WORK ORDER NON-	-CC	ONFO	RMANCE / UF				_	_	AEROSPACE
QA Closed:		Date:				_				Wo	ork Order up	odate only	\perp	
Work Orde	r:				DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS		
		***			Rework			Skid-tube	Crosstube]	Water Jet	\neg	Engineering
Part N	0.				Scrap			Machining	Small Fab	-	Pro	d. Eng. Coor.	┨	Quality
					Use-as-is		Thern	noforming	Finishing		1	re/Packaging	┨	Other
NCR N	0				Suspected Unapproved			Large Fab	Composite			Supplier		
	······································	1									·		_	
Root		·		Desci	ription of work order update		nitial	Acti			Sign &			
Cause	Date	Step	Qty		or non-conformance	Ch	ief Eng	Descri	iption		Date	Verification	_	QC Inspector
Design	4	1												
Doc/Data	_													
Equip/Tooling														
Handling/Pre		i											-	
Material														
Operator	_	1												
Offset/Setup													ı	
Process													ı	
Supplier 													-	
Training														
Transport													1	
Unapproved		1	<u> </u>	<u> </u>			IIIT CAT	FECORY]			
Landir	ng Gear				General	FA	ULI CA	TEGORY						
Landii	Bending				Bend		ا دمانه (د	rogram	+		Outside Dim	onsions [一.	Pressure/Forced
ŀ	Centre N	ot Conce	ntric	_	BOM/Route	\vdash	Grain	Togram			Over/Under	<u> </u>	\neg	Set-up
•	Cracks	or conce	ittiic	_	Broken/Damage/Defect	┝	Hardwa	ıre			Part Incorre	 	\dashv	Temperature/Cure
	Crimp/Ki	nk/Ripple	/Wave		Burrs	\vdash	1	ion Incomplete/Un	gualified		Part Lost/Mi	} -	\dashv	Weld
	Cuffs	у тарыс	.,		Contamination	<u> </u>	4 ·	tions Incomplete/U	•		Part Moved	-	—	Wrong Stock Pulled
	Crushing				Countersink	_	4	ned/off center		\vdash	Positioned V	∟ Vrong		
	Heat Trea				Cut Too Short		Mislabe			\vdash	Power Loss/	· -	\neg	Other
	Inspectio		Tube		Drawing		Misrea			ш	1	0 ·		-
Ì	Marks/Cl	-			Drill Holes		Off-set							
ļ	Turning S				Finish		4	Calibration						
Ì	Wave/Tv				Fit/Function		1	Sequence						

Picklist Print

April-04-14 10:22:04 AM

Work Order ID: 115800

Parent Item:

D3631-1

115800 *D3631-1*

Parent Item Name:

Washer

Start Date: 4/04/14

Required Date: 4/04/14

Page 1

Start Qty: 20.00

Required Qty: 20.00

Comments:

IPP Rev:A New Issue 07-07-28 JLM Verified By:EC

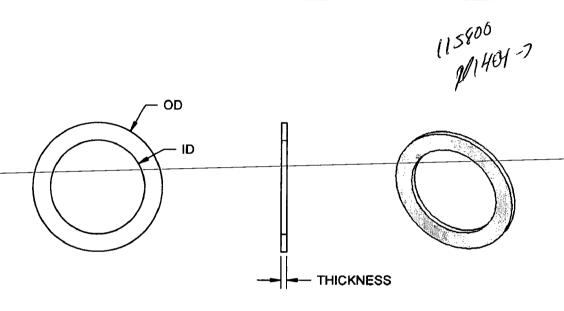
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
95606A170		Purchased	No			110	Each	0.0000	1	20	1		
95606A1	70								**	Po	14/4/9	10	U

DQA:			Date:												
						WORK ORDER NON-	-CO	ONFO	RMANCE / U	PDATE					AEROSPACE
QA Closed:			Date:								W	ork Order up	date only	\Box	
Work Orde	er:					DISPOSITION				AGAINST	DE	PARTMENT	/PROCESS		
	•					Rework			Skid-tube	Crosstube]	Water Jet		Engineering
Part I	No.					Scrap			Machining	Small Fab		Pro	d. Eng. Coor.	П	Quality
NCR f	No.			<u>-</u>		Use-as-is Suspected Unapproved		Thern	noforming Large Fab	Finishing Composite	-	Rec/Stor	e/Packaging Supplier		Other
Root					Desc	ription of work order update		Initial	Ac	tion		Sign &		\Box	
Cause		Date	Step	Qty		or non-conformance	Ch	nief Eng	Desc	ription		Date	Verification	n	QC Inspector
Design									-						
Doc/Data															
Equip/Tooling															
Handling/Pre					Ì	i	1								
Material						•	İ								
Operator		ı													
Offset/Setup															
Process															
Supplier															ı
Training														- 1	
Transport															
Unapproved															
							FA	ULT CAT	TEGORY						
Landi	_	1			_	General		7			_	7	•		ı
		Bending				Bend	_	1	rogram			Outside Dim	1	_	Pressure/Forced
		Centre No	ot Concer	ntric		BOM/Route		Grain				Over/Under	tolerance	$\boldsymbol{-}$	Set-up
		Cracks			<u> </u>	Broken/Damage/Defect		Hardwa			L	Part Incorred		Ш	Temperature/Cure
	-	Crimp/Kir	nk/Ripple	/Wave		Burrs	L	Inspect	ion Incomplete/U	nqualified	_	Part Lost/Mi	ssing	Ш	Weld
	-	Cuffs				Contamination	<u> </u>	4	ions Incomplete/	Unclear		Part Moved		Ш	Wrong Stock Pulled
		Crushing				Countersink	_	1 7	ned/off center			Positioned V	_		1
	<u> </u>	Heat Trea				Cut Too Short	_	Mislabe				Power Loss/	Surge	Ш	Other
	-	Inspection	•	Tube	\vdash	Drawing	L	Misread							
	-	Marks/Ch				Drill Holes	L	Off-set							
	<u> </u>	Turning S				Finish	L	-1	Calibration						
	<u></u>	Wave/Tw	ist in Tub	ре		Fit/Function	1	Out of	Sequence						



	DESIG	CB	DRAWN BY	DART AEROSPA HAWKESBURY, ONTAR	-
	CHECH		APPROVED	DRAWING NO.	REV. A
i		PH	THE STATE OF THE S	D3631	SHEET 1 OF 1
	DATE			TITLE	SCALE
		07.0	5.16	WASHER	NTS
,	REV		DATE	DESCRIPTIO	N
	Α		07.05.16	NEW ISSUE	

SPECIFICATION CONTROL DRAWING



D3631-X WASHER



PART NUMBER	OD	ID ID	THICKNESS	MATERIAL	SUPPLIER
D3631-1	0.688	0.500	0.031	NYLON	McMASTER-CARR P/N: 95606A170

NOTES:

1) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED 2) ALL DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED

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Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO23691

Purchase Order Date 4/7/2014 PO Print Date 4/7/2014

Page Number 1 of 2

Order From:

MCMASTER-CARR SUPPLY CO,

P.O. BOX 7690

CHICAGO, IL 60680-7690

US

VU-MCM001

Ship To: DART AEROSPACE LTD

1270 ABERDEEN

HAWKESBURY, ON K6A 1K7

CANADA

C/14/04/08

Contact Name

Vendor Phone

Ship To Contact

Ship To Phone

Ship Via:

Ship Acet:

330 995 5500

FedEx PI collect

Buyer

Brigitte Golden

Customer POID
Customer Tax #

10127-2607

Terms

Net 10

Currency

USD

FOB

FCA - (Free Carrier)

ne or	Reference Vendor Part Number	Description/ Mfg ID	Req Date/ CD Taxable	Req Qty/ Unit of	PO Unit Price	Extended Price
	Line Comments Delivery Comments		Promise Date	Measure	,	
(5)	605K56	HOOK AND LOOP TIE	4/9/2014	20.00	\$2.78	\$55.56
			Yes	Each		
Λ	AS PER DWG:D3551 REV:A	A B115605	4/9/2014			
					Line Total:	\$55.56
()(610K18	GROMMET	4/9/2014	1.00	\$13.31	\$13.31
			Yes	Each		
А	S PER DWG:D3619 REV:A	B115860	4/9/2014			
					Line Total:	\$13.31
9:	5606A170	Washer	4/9/2014	20.00	\$0.09	\$1.72
			Yes /	Each		
A	S PER DWG: D3631 REV:A	B115800	4/9/2014			

Note:

200 Aurora Industrial Pkwy Aurora OH 44202-8087 230-995-5500 Jie.sales@mcmaster.com

Dart Aerospace Ltd 1270 Aberdeen St Hawkesbury ON K6A 1K7 Canada Purchase Order PO23691

Page 2 of 2

Order Placed By Chantal Lavoie

04/08/2014

McMaster-Carr Number 2247546-01

LNS A83 Ordered Shipped Description 95606A170 Nylon 6/6 General Purpose Flat Washer, Off-White, 3 2 - 6237/16" Screw Size, .69" OD, .02"-.04" Thickness, Pack Packs of 100 Your Part Number: AS PER DWG: D3631 REV:A B115800 Unit Price: \$1.72 Extended Price: \$1.72 92311A639 18-8 Stainless Steel Cup Point Set Screw, 3/8"-24 10 10 2 - 695Thread, 1" Long, Packs of 10 **Packs** Your Part Number: AS PER DWG: D2747 REV:B B115776 Unit Price: \$6.61 Extended Price: \$66.10

Charges for this shipment

Merchandise Amount:

\$136.69

Total:

\$136.69